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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/500,264	12/08/2004	Andrea Mahn	4121-168	9836
7590 05/16/2006		EXAMINER		
Steven J Hultquist Intellectual Property Technology Law			WORLEY, CATHY KINGDON	
PO Box 14329			ART UNIT	PAPER NUMBER
Research Triangle Park, NC 27709			1638	

DATE MAILED: 05/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

_		Application No.	Applicant(s)				
Office Action Summary		10/500,264	MAHN ET AL.				
		Examiner	Art Unit				
		Cathy K. Worley	1638				
Pariod fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
	ORTENED STATUTORY PERIOD FOR REPLY	IS SET TO EXPIRE 1 MONTH	S) OR THIRTY (30) DAYS				
WHI(- Exte after - If NO - Failu Any	CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we tree to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on May 3	3 <u>, 2006</u> .					
2a)□	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims		•				
4)⊠	4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	Claim(s) is/are allowed.						
•	Claim(s) is/are rejected.						
·	Claim(s) is/are objected to.	lastian variances					
8)	Claim(s) <u>1-19</u> are subject to restriction and/or e	election requirement.					
Applicat	ion Papers						
9)[The specification is objected to by the Examiner	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
•	·	ammer. Note the attached Office	Action of form P10-152.				
Priority ι	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	• •						
1) Notic	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date		atent Application (PTO-152)				

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DETAILED ACTION

In the communication received on May 3, 2006, the Applicant has indicated they were not clear about what inventions were in group I and in group II. This second restriction requirement is being mailed to clarify the groups to facilitate election of an invention to be examined. The Examiner apologizes for the lack of clarity in the previous restriction requirement mailed on April 14, 2006.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

There are twenty-six thousand one hundred and twelve inventions, each of which is a unique combination of different elements (see lists of elements below).

The 26,112 was calculated by multiplying 4 x 2 x 2 x 3 x 34 x 2 x 2 x 4, which are the number of choices for each element in lists a-h, below.

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Groups 1 – 26,112, claim(s) 1-19 (in part), drawn to a method of increasing the content of one or more transgene-coded biomolecules in an organism, the method comprising changing the distribution of ATP and/or ADP in cells of the organism; where in:

- a) the transgene is regulated in a specified manner: constitutive, temporally, locally, inducibly (4 choices)
- b) several transgene biomolecules are expressed in parallel or sequentially (2 choices)
- c) there is a specified host organism: plant or animal (2 choices)
- d) the transgene encodes a specified type of biomolecule: peptide, protein, or nucleic acid (3 choices)
- e) the transgene encodes a specified class of molecule: antibodies, aptamers, receptors, enzymes, growth factors, hormones, specific antigen, antibody molecules, interferons, immunoglobulins, growth hormones, insulin, collagen, plasminogen activator, blood factor I, blood factor II, blood factor III, blood factor IV, blood factor V, blood factor VI, blood factor VIII, blood factor IX, blood factor X, blood factor XII, histocompatibility antigens, enzymes, tumor marker proteins, viral proteins, ribozymes, single-stranded DNA, double-stranded DNA, single-stranded RNA, or double-stranded RNA (34 choices)
- t) subcellular distribution of ATP and/or ADP is either increased or reduced (2 choices)

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g) expression of a gene which codes for a protein involved in the subcellular distribution of ATP and/or ADP is either increased or decreased (2 choices) and

h) the expression of a gene which codes for a protein involved in the subcellular distribution of ATP and/or ADP is constitutive or regulated temporally, locally, or inducibly (4 choices);

and wherein each of the groups 1 · 26,112 has a different combination of the items listed in parts a-h.

The inventions listed as Groups 1-26,112 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking groups 1-26,112 is a method comprising changing the distribution of ATP and/or ADP in the cells of an organism wherein the content of one or more transgene-coded biomolecules is increased. However, Tjaden et al. (The Plant Journal (1998) Vol. 16, pp. 531-540) teach altered ATP distribution (see page 533, Table 2) and teach increased content of AATP1 which is a transgene-coded biomolecule (see page 533, figure 2A). Therefore, the technical feature linking the inventions of groups 1-26,112 does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the prior art.

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Accordingly, groups 1-26,112 are not so linked by the same or a corresponding special technical feature as to form a single general inventive concept.

Applicant is advised to select one item from each group (a-h). Any claims drawn to non-elected subject matter will be withdrawn from consideration.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse.

To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if

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one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cathy K. Worley whose telephone number is (571) 272-8784. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571) 272-0975.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CKW May 5, 2006

ANNE MARIE GRUNBERG SUPERVISORY PATENT EXAMINER